

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of recording an encoded bit stream on a record carrier, said encoded bit stream representing a plurality of video objects comprising a sequence of cells ~~together constituting a part of an MPEG2 Program Stream, on a disc like record carrier~~, said method comprising the acts of:

recording a collection of contiguously arranged video objects in a video object storage area of said disc,

recording management information in a management information area of said disc for storing information about recorded video objects, wherein said collection is partitioned into adjacent recordings that represent playable titles,

defining a playable title as a playback sequence of all complete cells or a subset of complete cells of a recording in the

order of allocation within the video object storage area on the disc,

generating a title list of titles sorted in the order of arrangement within the video object storage area on the disc,—and

defining a free space title that represents free space that is available on the disc within the video object storage area and

including the free space title in the title list and in the playable title,

creating two titles for the recording, the two titles including a full title and a play list title, and

tagging as free space both the full title and the play list title when a full title is deleted.

Claim 2 (Canceled)

3. (Previously Presented) The method according to Claim 1, further comprising the act of blocking free space titles for playback.

4. (Previously Presented) The method according to Claim 3,

further comprising the act of converting a deleted title to a free space title.

5. (Previously Presented) The method according to Claim 4, further comprising the act of generating a title menu listing the titles in a same order as in a title table for allowing user access to the titles.

6. (Currently Amended) A recording apparatus for recording an encoded bit stream on a record carrier, the encoded bit stream representing a plurality of video objects comprising a sequence of ~~cells together constituting a part of an MPEG2 Program Stream, on a disc like record carrier,~~ the recording apparatus comprises:

recording means for recording a collection of contiguously arranged video objects in a video object storage area of said disc and for recording management information in a management information area of said disc for storing information about recorded video objects, wherein said collection is partitioned into adjacent recordings that represent playable titles, and

system control means adapted to define a playable title as a

playback sequence of all complete cells or a subset of complete cells of a recording in the order of allocation within the video object storage area on the disc and to generate a title list of titles sorted in the order of arrangement within the video object storage area on the disc, the system control means being further adapted to define a free space title that represents free space that is available on the disc within the video object storage area and to include the free space title in the title list, to create two titles for the recording, the two titles including a full title and a play list title, and to tag as free space both the full title and the play list title when a full title is deleted.

Claim 7 (Canceled)

8. (Previously Presented) The recording apparatus according to Claim 6, wherein the system control means are adapted to block free space titles for playback.

9. (Previously Presented) The recording apparatus according to Claim 8, wherein the system control means are adapted to convert a

deleted title to a free space title.

10. (Previously Presented) The recording apparatus according to Claim 9, wherein the system control means are adapted to generate a title menu listing the titles in the same order as in a title table for allowing user access to the titles and the recording means comprises output means for displaying the title menu.

11. (Previously Presented) The method according to Claim 1, wherein the act of generating the title list of titles further comprises the act of generating titles for both the playback sequence of all complete cells and the subset of complete cells.

12. (Currently Amended) The method according to Claim 11, wherein the act of generating the title list of titles further comprises the acts of:

~~defining a free space title that represent free space within the video object storage area and including the free space title in the title list; and~~

deleting at least one of the playback sequence of all complete cells and converting the deleted sequence into the free space title; and

wherein the free space title representing the deleted sequence includes the title for the subset of complete cells.

13. (Previously Presented) The method according to Claim 12, wherein the act of generating the title list of titles further comprises the acts of:

deleting multiple ones of the playback sequence of all complete cells; and

converting all of the deleted ones of the playback sequences and the respective subsets of complete cells into a single free space title.

14. (Previously Presented) The recording apparatus according to Claim 6, wherein the system control means further generate the title list of titles for both the playback sequence of all complete cells and the subset of complete cells.

15. (Currently Amended) The recording apparatus according to Claim 14, wherein the system control means ~~generates a free space title representing free space within the video object storage area and including the free space title in the title list,~~ deletes at least one of the playback sequence of all complete cells and converting the deleted sequence into the free space title, and wherein the free space title representing a deleted sequence includes the title for the subset of complete cells.

16. (Previously Presented) The recording apparatus according to Claim 15, wherein the system control means deletes multiple ones of the playback sequence of all complete cells, and converts all of the deleted ones of the playback sequences and the respective subsets of complete cells into a single free space title.

17. (Currently Amended) A recording apparatus for recording an encoded bit stream on a disc, representing a plurality of video objects comprising a sequence of cells ~~together constituting a part of an MPEG2 Program Stream, on a disc,~~ recording apparatus comprising:

a recorder capable of recording a collection of video objects in a video object storage area of said disc and for recording management information in a management information area of said disc for storing information about recorded video objects, wherein said collection is partitioned into adjacent recordings that represent playable titles; and

a controller adapted to define a playable title as a playback sequence of all complete cells or a subset of complete cells of a recording in the order of allocation within the video object storage area on the disc and to generate a title list of titles sorted in the order of arrangement within the video object storage area on the disc, wherein each of the playback sequence of all complete cells and each of the subset of complete cells have their own title, wherein the controller is further adapted to define a free space title that represents free space that is available on the disc within the video object storage area and to include the free space title in the title list, to create two titles for the recording, the two titles including a full title and a play list title, and to tag as free space both the full title and the play list title when a full title is deleted.

Claim 18 (Canceled)

19. (Previously Presented) The recording apparatus according to Claim 17, wherein the controller is adapted to block free space titles for playback.

20. (Previously Presented) The recording apparatus according to Claim 17, wherein the controller is adapted to convert a deleted title to a free space title.

Claim 21 (Canceled)

22. (Currently Amended) The method of ~~claim 21~~ claim 1, wherein the full title is different from the play list title, the play list title defining play back of a subset of the cells which are included in the full title.

Claim 23 (Canceled)

24. (Currently Amended) The recording apparatus of ~~claim 23~~
claim 6, wherein the full title is different from the play list
title, the play list title defining play back of a subset of the
cells which are included in the full title.

Claim 25 (Canceled)

26. (Currently Amended) The recording apparatus of ~~claim 25~~
claim 17, wherein the full title is different from the play list
title, the play list title defining play back of a subset of the
cells which are included in the full title.

27. (New) The method of claim 1, further comprising the act of
combining into one new title deleted consecutive full titles.

28. (New) The recording apparatus of claim 6, wherein the
system control means are further adapted to combine into one new
title deleted consecutive full titles.

29. (New) The recording apparatus of claim 17, wherein the

controller is further adapted to combine into one new title deleted consecutive full titles.